



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **2002350732 A**(43) Date of publication of application: **04.12.2002**

(51) Int. Cl. **G02B 21/00**
G01N 21/64, G02B 21/06

(21) Application number: **2001156706**(71) Applicant: **NIKON CORP**(22) Date of filing: **25.05.2001**(72) Inventor: **OTAKI TATSURO****(54) FLUORESCENT OBSERVATION APPARATUS****(57) Abstract:**

PROBLEM TO BE SOLVED: To provide a fluorescent observation apparatus which does not require a wavelength selection filter, is small in the size of an optical source, does not generate heat and is long in life.

SOLUTION: The fluorescent luminous fluxes which are emitted from a sample and have wavelength different from an illumination wavelength are condensed by an objective lens 23 and the condensed luminous flux is transmitted through the dichroic mirror 13 and is selected by the wavelength selection filter 14 and an observation image 17 is formed by an imagery lens 24. The observation image is bent by mirrors 15 and 16 so as to be made observable by an observer, is enlarged by an eyepiece 25 and is observed by the naked eyes 26 of the observer. The fluorescent luminous fluxes which are emitted from the sample and have the wavelength different from the illumination wavelength are condensed by the objective lens 23 and the condensed luminous flux is transmitted through the dichroic mirror

13 and is selected by the wavelength selection filter 14 and the observation image 17 is formed by the imagery lens 24. The observation image is observed by the naked eyes 26 of the observer through the eyepiece 25 by enlarging the same.

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